GEOTECHNICAL ENGINEERING UNIT FIELD SCOUR REPORT

PROJECT: 8.2752101 ID: B-3926 COUNTY: WATAUGA	
DESCRIPTION(1): BRIDGE NO. 36 ON SR-1340 OVER MEAT CAMP CREEK	
INFORMATION ON EXISTING BRIDGES Information obtained from: X field inspection microfilm(Reel: Pos: other	
COUNTY BRIDGE NO. 36 BRIDGE LENGTH 26 FT NO. BENTS IN: CHANNEL FLOOD PLAIN2	
FOUNDATION TYPE:	
EVIDENCE OF SCOUR(2):	
ABUTMENTS OR END BENT SLOPES: HARD FLOW AGAINST EBI-B AND EB2-A CAUSING SCOUR	
INTERIOR BENTS: N/A	
CHANNEL YES	
CHANNEL BANKS: NONE	
EXISTING SCOUR PROTECTION:	
TYPE(3): NONE	
EXTENT(4):	
EFFECTIVENESS(5):	
OBSTRUCTIONS(6) (DAMS,DEBRIS,ETC.): NONE	
DESIGN INFORMATION	
CHANNEL BED MATERIAL(7) (SAMPLE RESULTS ATTACHED): GRAVEL AND BOULDERS	
CHANNEL BANK MATERIAL(8) (SAMPLE RESULTS ATTACHED): SAND, GRAVEL AND BOULDERS	
FOUNDATION BEARING MATERIAL(9): SAPROLITE AND ROCK	
CHANNEL BANK COVER(10) TREES AND BRUSH	
FLOOD PLAIN WIDTH(11): 100 FEET	
FLOOD PLAIN COVER(12): ROADWAY, GRASSY YARD, LIGHT BRUSH	

DES	SIGN INFORMATION CONT. PAG	ŧΕ
STRI	EAM IS X DEGRADING AGGRADING (13)	
	HER OBSERVATIONS AND COMMENTS:	
OTH	HER OBSERVATIONS AND COMMENTS.	
CHA	ANNEL MIGRATION TENDENCY (14): EAST AGAINST EB1	
GEC	OTECHNICALLY ADJUSTED SCOUR ELEVATION (15):	
	EBI-A 3522.0 FT	
	EB1-B 3525.0 FT	********
	EB2-A 3522.0 FT	
	EB2-B 3510.0 FT	
	REPORTED BY: L. L. ACKER DATE: 6/20/03	
	<u>INSTRUCTIONS</u> GIVE THE DESCRIPTION OF THE SPECIFIC SITE GIVING ROUTE NUMBER AND BODY OF WATER CROSSED.	
(1)	NOTE ANY EVIDENCE OF SCOUR AT THE EXISTING END BENTS OR ABUTMENTS (UNDERMINING,	
(2)	SLOUGHING, SCOUR LOCATIONS, DEGRADATIONS, ETC.)	
(2)	NOTE ANY EXISTING SCOUR PROTECTION (RIP RAP, ETC.)	
(3)	DESCRIBE THE EXTENT OF ANY EXISTING SCOUR PROTECTION.	
(4)	DESCRIBE WHETHER OR NOT THE SCOUR PROTECTION APPEARS TO BE WORKING.	
(5)	NOTE ANY DAMS, FALLEN TREES, DEBRIS AT BENTS, ETC.	
(6)	DESCRIBE THE CHANNEL BED MATERIAL: A SAMPLE SHOULD BE TAKEN FOR GRAIN SIZE DISTRIBUTION,	
(7)	ATTACH LAB RESULTS.	
(0)	DESCRIBE THE CHANNEL BANK MATERIAL: A SAMPLE SHOULD BE TAKEN FOR GRAIN SIZE	
(8)	DISTRIBUTION, ATTACH LAB RESULTS.	
(0)	DESCRIBE THE FOUNDATION BEARING MATERIAL,	
(9)	DESCRIBE THE BANK COVERING (GRASS, TREES, RIP RAP, NONE, ETC.	
(10)	GIVE THE APPROXIMATE FLOOD PLAIN WIDTH (ESTIMATE).	
(11)	DESCRIBE THE FLOOD PLAIN COVERING (GRASS, TREES, CROPS, ETC.)	
(12)	CHECK THE APPROPRIATE SPACE AS TO WHETHER THE STREAM IS DEGRADING OR AGGRADING	
(13)	THE POPULATION OF THE POPULATION OF WATER TO MICRATE LATERALLY DURING THE LIFE OF THE	
(14)	BRIDGE (APPROXIMATELY 100 YEARS).	
(4.5)	AN IN THE RESTERNISHED AND MISTED SCOUR ELEVATION EXPECTED OVER THE LIFE OF THE BRIDGE	
(15)	(APPROXIMATELY 100 YEARS). THIS CAN BE GIVEN AS AN ELEVATION RANGE ACROSS THE SITE, OR ON	
	A BENT BY BENT BASIS WHERE VARIATIONS EXIST. DISCUSS RELATIONSHIP BETWEEN THE HYDRAULICS	
	THEORETICAL SCOUR AND THE GEOTECHNICALLY ADJUSTED SCOUR ELEVATION. THE GEOTECHNICALLY	
	ADJUSTED SCOUR ELEVEVATION IS BASED ON THE ERODABILITY OF MATERIALS WITH CONSIDERATION	
	FOR JOINTING, FOLIATION, BEDDING ORIENTATION AND FREQUENCY; CORE RECOVERY PERCENTAGE;	
	1 Oly Ocharina Opin Charles and a second control of the second con	

PERCENTAGE RQD; DIFFERENTIAL WEATHERING, SHEAR STRENGTH; OBSERVATIONS AT EXISTING STRUCTURES; OTHER TESTS DEEMED APPROPRIATE; AND OVERALL GEOLOGIC CONDITIONS AT THE SITE.